



Department of Energy

ROCKY FLATS FIELD OFFICE
P.O. BOX 928
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53896

APR 24 1995

95-DOE-08296

Mr. Joe Schieffelin
Hazardous Waste Facilities Unit Leader
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80222-1530

Dear Mr. Schieffelin:

As per Ms. Lisa Weers request of Friday, March 31, 1995, regarding the specific gravity of the content within the polyethylene tanks after the sludge was transferred from the six metal containers, enclosed please find detailed information on specific gravity determination (Sludge Removal Data Sheet and calculations). This information was facsimiled to Ms. Weers on Tuesday, April 4, 1995.

Hopefully the information provided will resolve the specific gravity issue regarding the sludge/water within the polyethylene tanks. If you or Ms. Weers have further questions regarding the specific gravity issue, please feel free to contract Briand Wu at 966-5899.

Sincerely,

Steven W. Slaten
IAG Project Coordinator
Environmental Restoration

Enclosure

cc w/o Enclosure:
J. Ciocco, EM-453, HQ
H. Ainscough, CDPHE
M. Hestmark, EPA
L. Weers, CDPHE
B. Wu, ER, RFFO
S. Howard, SAIC
S. Keith, EG&G
J. Mellen, EG&G

Admin Records

A-OU04-000753

DATE	RUN #	TANK VOL (gal)	SLUDGE			WATER			FINAL Sp. Gr.
			Sp. Gr. of SLUDGE	SLUDGE VOLUME	Sp. Gr. EQUIV.	Sp. Gr. of H2O	WATER VOLUME	Sp. Gr. EQUIV.	
3/ 2/95	1	1500	1.92	375	720	1	1125	1125	1.23
3/ 6/95	2	1500	1.85	375	693.75	1	1125	1125	1.2125
3/ 7/95	3	1500	1.72	375	645	1	1125	1125	1.18
3/ 7/95	4	1500	1.65	375	618.75	1	1125	1125	1.1625
3/ 8/95	5	1000	1.8	375	675	1	625	625	1.3
3/ 9/95	6	500	1.77	375	663.75	1	125	125	1.5775
SUM		7500		2250	4016.25		5250	5250	1.2355

EXAMPLE OF CALUCULATION FOR RUN #1

1500 gallons of sludge/water (from the metal container #1) was transferred into polyethylene tank 25.001.

The volume of the metal container is approximately 375 gallons.

For container #1, 375 gallons of sludge (Sp. Gr. = 1.92) and 1125 gallons of water (Sp. Gr. = 1) were transferred into Tank 25.001.

Specific gravity for the total 1500 gallons of sludge/water was:

$$[(1.92 \times 375) + (1125 \times 1)] / 1500 = 1.23$$

The specific gravity for the 7500 gallons of sludge/water transferred into Tank 25.001 for all six runs is approximately 1.24.